
Publications

1. M. Mąkosza,* M. Barbasiewicz, K. Wojciechowski, *Can Nitroalkanes be Obtained Directly from Alcohols and Sodium Nitrite in Acetic Acid – Hydrochloric Acid Mixture?*; *Synlett* **2001**, 1121–1122. [[link](#)]
2. N. Moskalev, M. Barbasiewicz, M. Mąkosza,* *Synthesis of 4- and 6-substituted nitroindoles*; *Tetrahedron* **2004**, *60*, 347–358. [[link](#)]
3. M. Barbasiewicz, M. Judka, M. Mąkosza,* *New reactions of γ -halocarbanions – underestimated active intermediates in organic synthesis*; *Russ. Chem. Bull., Int. Ed.* **2004**, *53*, 1846–1858 (a review). [[link](#)]
4. M. Mąkosza,* M. Barbasiewicz, D. Krajewski, *Diastereoselective Synthesis of Tetrahydrofurans via Reaction of γ,δ -Epoxy-carbanions with Aldehydes*; *Org. Lett.* **2005**, *7*, 2945–2948. [[link](#)]
5. M. Barbasiewicz, M. Mąkosza,* *Simple Synthesis of Tetrahydrofurans via Reaction of Enolates of γ -Chloroketones with Aldehydes*; *Synthesis* **2006**, 1190–1194. [[link](#)]
6. M. Barbasiewicz, K. Marciniak, M. Fedoryński,* *Phase transfer alkylation of arylcetonitriles revisited*; *Tetrahedron Lett.* **2006**, *47*, 3871–3874. [[link](#)]
7. M. Barbasiewicz,* A. Szadkowska, R. Bujok, K. Grela,* *Structure and Activity Peculiarities of Ruthenium Quinoline and Quinoxaline Complexes: Novel Metathesis Catalysts*; *Organometallics* **2006**, *25*, 3599–3604. [[link](#)]
8. M. Barbasiewicz, M. Mąkosza,* *Intermolecular Reactions of Chlorohydrine Anions: Acetalization of Carbonyl Compounds under Basic Conditions*; *Org. Lett.* **2006**, *8*, 3745–3748. [[link](#)]
9. M. Barbasiewicz,* M. Bieniek, A. Michrowska, A. Szadkowska, A. Makal, K. Woźniak,* K. Grela,* *Probing of the Ligand Anatomy: Effects of the Chelating Alkoxy Ligand Modifications on the Structure and Catalytic Activity of Ruthenium Carbene Complexes*; *Adv. Synth. Catal.* **2007**, *349*, 193–203. [[link](#)]
10. X. Gstrein, D. Burtscher, A. Szadkowska, M. Barbasiewicz, F. Stelzer, K. Grela, Ch. Slugovc,* *Ruthenium Quinoline and Quinoxaline Complexes: Thermally Triggered Initiators for Ring Opening Metathesis Polymerization*; *J. Polym. Sci. A* **2007**, *45*, 3494–3500. [[link](#)]
11. M. Barbasiewicz, A. Brud, M. Mąkosza,* *Synthesis of Substituted Tetrahydropyrans via Intermolecular Reactions of δ -Halocarbanions with Aldehydes*; *Synthesis* **2007**, 1209–1213. [[link](#)]
12. K. Skopek, M. Barbasiewicz, F. Hampel, J. A. Gladysz,* *Three-Fold Intramolecular Ring-Closing Metatheses Involving cis Adducts of Phosphorus Donor Ligands: Syntheses, Structures, and Properties of Parachute-Like Complexes*; *Inorg. Chem.* **2008**, *47*, 3474–3476. [[link](#)]
13. M. Barbasiewicz,* A. Szadkowska, A. Makal, K. Woźniak, K. Grela,* *Is the Hoveyda-Grubbs Metathesis Catalyst a Vinylogous Fischer-type Carbene? Aromaticity-Controlled Activity of Ruthenium Complexes*; *Chem. Eur. J.* **2008**, *14*, 9330–9337. [[link](#)]
14. A. Wojtasiewicz, M. Barbasiewicz, M. Mąkosza,* *Intramolecular Addition of γ -Chlorocarbanions to Electrophilic Groups – Synthesis of Tricyclic Tetrahydrofurans, Pyrrolidines and Cyclopentanes*; *Eur. J. Org. Chem.* **2010**, 1885–1894. [[link](#)]
15. A. J. Nawara-Hultsch, K. Skopek, T. Shima, M. Barbasiewicz, G. D. Hess, D. Skaper, J. A. Gladysz,* *Syntheses and Palladium, Platinum, and Borane Adducts of Symmetrical Trialkylphosphines with Three Terminal Vinyl Groups, $P((CH_2)_mCH=CH_2)_3$* ; *Z. Naturforsch. B* **2010**, *65b*, 414–424. [[link](#)]

16. Z. Komsta, M. Barbasiewicz, M. Małosza,* *Diastereoselective synthesis of tetrahydrofurans from aryl 3-chloropropylsulfoxides and aldehydes*; *J. Org. Chem.* **2010**, *75*, 3251–3259. [▶link](#)
17. A. Poater, F. Ragone, A. Correa, A. Szadkowska, M. Barbasiewicz, K. Grela, L. Cavallo,* *Mechanistic Insights on the Cis-Trans Isomerization of Ruthenium Complexes Relevant to Olefin Metathesis Catalysts*; *Chem. Eur. J.* **2010**, *16*, 14354–14364. [▶link](#)
18. M. Stollenz, M. Barbasiewicz, A. J. Nawara-Hultsch, T. Fiedler, R. M. Laddusaw, N. Bhuvanesh, J. A. Gladysz,* *Dibridgehead Diphosphines that Turn Themselves Inside Out*; *Angew. Chem. Int. Ed.* **2011**, *50*, 6647–6651. [▶link](#)
19. A. Leitgeb, A. Szadkowska, M. Michalak, M. Barbasiewicz, K. Grela, C. Slugovc,* *Unequal siblings: Adverse characteristics of naphthalene-based hoveyda-type second generation initiators in ring opening metathesis polymerization*; *J. Polym. Sci. A: Polym. Chem.* **2011**, *49*, 3448–3454. [▶link](#)
20. M. Barbasiewicz,* K. Grudzień, M. Malińska, *A Missing Relative: A Hoveyda-Grubbs Metathesis Catalyst Bearing a Peri-Substituted Naphthalene Framework*; *Organometallics* **2012**, *31*, 3171–3177. [▶link](#)
21. K. Grudzień, M. Malińska, M. Barbasiewicz,* *Synthesis and Properties of Bimetallic Hoveyda-Grubbs Metathesis Catalysts*; *Organometallics* **2012**, *31*, 3636–3646. [▶link](#)
22. P. Knapkiewicz, K. Skowerski, D. E. Jaskólska, M. Barbasiewicz, T. K. Olszewski,* *Nitration Under Continuous Flow Conditions: Convenient Synthesis of 2-Isopropoxy-5-nitrobenzaldehyde, an Important Building Block in the Preparation of Nitro-Substituted Hoveyda-Grubbs Metathesis Catalyst*; *Org. Process Res. Dev.* **2012**, *16*, 1430–1435. [▶link](#)
23. M. Barbasiewicz, M. Małosza,* *Intermolecular Reactions of γ -Halocarbanions–Stepwise Analogs of 1,3-Dipolar Cycloaddition*; *Helv. Chim. Acta*, **2012**, *95*, 1871–1890 (a review). [▶link](#)
24. M. Barbasiewicz,* M. Michalak, K. Grela,* *A New Family of Halogen-Chelated Hoveyda-Grubbs Type Metathesis Catalysts*; *Chem. Eur. J.* **2012**, *18*, 14237–14241. [▶link](#)
25. M. Barbasiewicz,* K. Błocki, M. Malinska, R. Pawłowski, *Intriguing substituent effect in modified Hoveyda-Grubbs metathesis catalysts incorporating a chelating iodo-benzylidene ligand*; *Dalton Trans.* **2013**, *42*, 355–358. [▶link](#)
26. M. Barbasiewicz,* M. Malińska, K. Błocki, *Latent Metathesis Catalyst Stabilized with $\text{NO}_2 \cdots \text{I}$ Interaction*; *J. Organomet. Chem.* **2013**, *745-746*, 8–11. [▶link](#)
27. K. Grudzień, K. Żukowska, M. Malińska, K. Woźniak, M. Barbasiewicz,* *Mechanistic Studies of Hoveyda-Grubbs Metathesis Catalysts Bearing S-, Br-, I-, and N-coordinating Naphthalene Ligands*; *Chem. Eur. J.* **2014**, *20*, 2819–2828. [▶link](#)
28. A. J. Nawara-Hultsch, M. Stollenz, M. Barbasiewicz, S. Szafert, T. Lis, F. Hampel, N. Bhuvanesh, J. A. Gladysz,* *Gyroscope-Like Molecules Consisting of $\text{PdX}_2/\text{PtX}_2$ Rotators within Three-Spoke Dibridgehead Diphosphine Stators: Syntheses, Substitution Reactions, Structures, and Dynamic Properties*; *Chem. Eur. J.* **2014**, *20*, 4617–4637. [▶link](#)
29. M. Barbasiewicz,* *Novel Concepts in Catalyst Design – A Case Study of Development of Hoveyda Type Complexes*; pp. 475–481 (Chapter 18) in *Olefin Metathesis: Theory and Practice*, Ed. K. Grela, John Wiley and Sons, Inc. **2014** (a review). [▶link](#)
30. K. Grudzień, M. Barbasiewicz,* *Studies on synthesis of quinonylidene Hoveyda-type complexes*; *Appl. Organometal. Chem.* **2015**, *29*, 322–327. [▶link](#)
31. J. Wappel, K. Grudzień, M. Barbasiewicz, M. Michalak, K. Grela, C. Slugovc,* *Initiation efficacy of halo-chelated cis-dichloro-configured ruthenium-based second-generation benzylidene complexes in ring-opening metathesis polymerization*; *Monatsh. Chem.* **2015**, *146*, 1153–1160. [▶link](#)
32. B. Bieszczad, M. Barbasiewicz,* *The Key Role of the Nonchelating Conformation of the Benzylidene*

Ligand on the Formation and Initiation of Hoveyda-Grubbs Metathesis Catalysts; *Chem. Eur. J.* **2015**, *21*, 10322–10325. [▶link](#)

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33. T. Basak, K. Grudzień, M. Barbasiewicz,* *Remarkable Ability of the Benzylidene Ligand To Control Initiation of Hoveyda-Grubbs Metathesis Catalysts*; *Eur. J. Inorg. Chem.* **2016**, 3513–3523. [▶link](#)
34. K. Skonieczny, J. Yoo, J. M. Larsen, E. M. Espinoza, M. Barbasiewicz, V. I. Vullev,* C.-H. Lee,* D. T. Gryko,* *How To Reach Intense Luminescence for Compounds Capable of Excited-State Intramolecular Proton Transfer?*; *Chem. Eur. J.* **2016**, *22*, 7485–7496. [▶link](#)
35. B. Górski, A. Talko, T. Basak, M. Barbasiewicz,* *Olefination with Sulfonyl Halides and Esters: Scope, Limitations, and Mechanistic Studies of the Hawkins Reaction*; *Org. Lett.* **2017**, *19*, 1756–1759 (highlighted in *Synfacts*). [▶link](#)
36. K. Grudzień, T. Basak, M. Barbasiewicz,* T. M. Wojciechowski, M. Fedoryński, *Synthesis, properties and application of electronically-tuned tetraarylarsonium salts as phase transfer catalysts (PTC) for the synthesis of gem-difluorocyclopropanes*; *J. Fluorine Chem.* **2017**, *197*, 106–110. [▶link](#)
37. B. Górski, D. Basiak, A. Talko, T. Basak, T. Mazurek, M. Barbasiewicz,* *Olefination with Sulfonyl Halides and Esters: E-Selective Synthesis of Alkenes from Semistabilized Carbanion Precursors*; *Eur. J. Org. Chem.* **2018**, *2018*, 1774–1784 (VIP paper). [▶link](#)
38. A. Talko, M. Barbasiewicz,* *Nucleophilic Fluorination with Aqueous Bifluoride Solution: Effect of the Phase-Transfer Catalyst*; *ACS Sustainable Chem. Eng* **2018**, *6*, 6693–6701 (invited article). [▶link](#)
39. T. Fiedler, M. Barbasiewicz, M. Stollenz, J. A. Gladysz,* *Non-metal-templated approaches to bis(borane) derivatives of macrocyclic dibridgehead diphosphines via alkene metathesis*; *Beilstein J. Org. Chem.* **2018**, *14*, 2354–2365. [▶link](#)
40. A. Talko, D. Antoniak, M. Barbasiewicz,* *Directed ortho-metalation of arenesulfonyl fluorides and aryl fluorosulfates*; *Synthesis* **2019**, *51*, 2278–2286 (invited feature article). [▶link](#)
41. B. Górski, D. Basiak, Ł. Grześniński, M. Barbasiewicz,* *Stereodivergent synthesis of alkenes by controllable syn-/anti-fragmentation of β -hydroxysulfonyl intermediates*; *Org. Biomol. Chem.* **2019**, *17*, 7660–7663. [▶link](#)
42. K. Durka,* B. Górski, K. Błocki, M. Urban, K. Wozniak, M. Barbasiewicz, S. Luliński, *Experimental and Theoretical Insights into Molecular and Solid-State Properties of Isomeric Bis(salicylaldehydes)*; *J. Phys. Chem. A* **2019**, *123*, 8674–8689. [▶link](#)
43. D. Antoniak, M. Barbasiewicz,* *Corey-Chaykovsky Cyclopropanation of Nitronaphthalenes: Access to Benzonorcaradienes and Related Systems*; *Org. Lett.* **2019**, *21*, 9320–9325. [▶link](#)
44. D. Basiak, M. Barbasiewicz,* *Olefination with sulfonyl halides and esters – sulfur-based variant of the Horner-Wadsworth-Emmons reaction*; *Arkivoc* **2021**, part ii, 118–135. [▶link](#)
45. M. Trynieszewski, M. Barbasiewicz,* *Gram-Scale Preparation of Acyl Fluorides and Their Reactions with Hindered Nucleophiles*; *Synthesis* **2022**, *54*, 1446–1460. [▶link](#)
46. D. Antoniak, M. Barbasiewicz,* *Alkylation of Nitropyridines via Vicarious Nucleophilic Substitution*; *Org. Lett.* **2022**, *24*, 516–519 (one of the most viewed articles in February). [▶link](#)
47. D. Antoniak, B. Pałuba, T. Basak, K. Błaziak, M. Barbasiewicz,* *Alkylation of Nitroarenes via Vicarious Nucleophilic Substitution – Experimental and DFT Mechanistic Studies*; *Chem. Eur. J.* **2022**, *28*, e202201153. [▶link](#)
48. M. Trynieszewski, D. Basiak, M. Barbasiewicz,* *Olefination with Sulfonyl Halides and Esters: Synthe-*

sis of Unsaturated Sulfonyl Fluorides; *Org. Lett.* **2022**, *24*, 4270–4274. [[link](#)]

49. D. Antoniak, M. Barbasiewicz,* *Reactions of Nitroarenes with Corey-Chaykovsky Reagents*; *Synlett* **2022**, *33*, accepted article ([invited Synfacts article](#)). [[link](#)]
50. M. Barbasiewicz,* *Potassium Hydrogen Fluoride, second update*; *e-EROS Encyclopedia of Reagents for Chemical Synthesis*, Wiley, in preparation ([invited article](#)).
51. M. Kopyt, M. Tryniszewski, M. Barbasiewicz,* P. Kwiatkowski,* *Enantioselective Michael Addition of Malonates...*, in preparation.

Conferences & Invited Lectures

1. Winter School on Organic Reactivity, 6–13th of January 2002, Bressanone, Italy (poster: *One-Pot Synthesis of Substituted Nitroindoles via Oxidative Nucleophilic Substitution in metaNitroanilines*)
2. YoungChem 2003, 22–26th of October 2003, Zakopane, Poland (*Carbanions with good leaving groups as reactants for tandem processes*)
3. Balticum Organicum Syntheticum, 27th of June–1st of July 2004, Ryga, Latvia (poster: *Diastereoselective synthesis of 2-hydroxymethyl tetrahydrofuranes*)
4. VII Ogólnopolskie Sympozjum Chemii Organicznej, 18–20th of November 2004, Warszawa, Poland (poster: *Synteza pochodnych 5-hydroksymetylotetrahydrofuranu z prekursorów γ,δ -halokarboanionów*)
5. VIII Spring meeting of synthetic chemistry, 17–18th of March 2005, Turku, Finland (*Reactions of γ - and δ -halocarbanions – novel discoveries of handbook chemistry*)
6. Frühjahrssymposium 2005, 7–9th of April 2005, Berlin, Germany (poster: *Reactions of γ - and δ -halocarbanions – novel discoveries of handbook chemistry*)
7. Frühjahrssymposium 2006, 16–18th of March 2006, Konstanz, Germany (poster: *Protection of carbonyl compounds under basic conditions*)
8. International conference "Sugars as renewable materials for the synthesis of compounds of biological interest", 22–27th of September 2006, Klekotki, Poland (*Intermolecular Reactions of Chlorohydrine Anions: Acetalization of Carbonyl Compounds under Basic Conditions*)
9. International Conference of Organometallic Chemistry, 13–19th of July 2008, Rennes, France (poster: *Syntheses, Structures and Properties of Parachute-like complexes*)
10. EUCHEM Conference on Stereochemistry, 2–7th of May 2010, Brunnen, Switzerland (poster: *π -Extended Hoveyda-Grubbs metathesis catalysts*)
11. (R)Evolution in Catalysis, 7–10th of May 2010, Warszawa, Poland (*Control of stereochemistry in reactions of γ -halocarbanions*)
12. XIX EuCheMS Conference on Organometallic Chemistry, 3–7th of July 2011, Toulouse, France (poster: *π -Extended Hoveyda-Grubbs metathesis catalysts*)
13. YoungChem 2012, 10–14th of October 2012, Gdańsk, Poland (*π -Extended Hoveyda-Grubbs metathesis catalysts*), first prize for oral presentation
14. II Ogólnopolskie Forum Chemii Nieorganicznej, Horyzonty Chemii, 7–10th of September 2014, Wrocław, Poland (*Od efektów π -elektronowych do koordynacji haloarenów – Nowe koncepcje w projektowaniu kompleksów typu Hoveydy-Grubbsa*)

15. 57 Zjazd PTChem i SITPChem, 14–18th of September, Częstochowa, Poland (*Homologiczna reakcja Darzensa*)
16. 57 Zjazd PTChem i SITPChem, 14–18th of September, Częstochowa, Poland (*Od efektów π -elektronowych do koordynacji haloarenów – Nowe koncepcje w projektowaniu kompleksów typu Hoveydy-Grubbsa*)
17. Konferencja ”Chemia organiczna wczoraj i dziś”, 12–13th of November 2014, Warszawa, Poland (*Homologiczna reakcja Darzensa*)
18. 27th International Symposium on Organic Chemistry of Sulfur, 24–29th of July 2016, Jena, Germany (*Horner-type reactivity of sulfonyl fluorides and esters – experimental studies of the Hawkins-Kagabu olefination*)
19. XI Ogólnopolskie Sympozjum Chemii Organicznej, 08–11th of April 2018, Warsaw, Poland (*Alkylsulfonylany fluorowanych alkoholi, jako odczynniki do olefinacji związków karbonylowych*)
20. 22nd International Symposium on Fluorine Chemistry, 22–27th of July 2018, Oxford, UK (*Olefination with sulfonyl halides and esters: Another case of good partnership between sulfur and fluorine*)
21. Jubileusz 85 urodzin profesora Mieczysława Mąkoszy, 10th of May 2019, Warsaw, Poland (*Homologiczna reakcja Darzensa i inne transformacje γ -halokarbonionów*), **invited lecture**
22. Laboratory of Growth Regulators, Institute of Experimental Botany ASCR, 16–17th of May 2019, Olomunc, Czech Republic (*New synthetic transformations inspired by Darzens and Corey-Chaykovsky reactions*), **invited lecture**
23. 19th European Symposium on Fluorine Chemistry, 25–31st of August 2019, Warsaw, Poland, (*Recent developments in olefination with sulfonyl halides and esters*)
24. 63 Zjazd PTChem, 13–16th of September 2021, Łódź, Poland (*Nowe zastosowania związków siarki i selenu w syntezie organicznej*), **invited lecture (online)**
25. Balticum Organicum Syntheticum, 03–06th of July 2022, Vilnius, Lithuania (*Novel transformations of nitroarenes*)
26. 20th European Symposium on Fluorine Chemistry, 14–19th of August 2022, Berlin, Germany (*Progress in preparation of acyl and sulfonyl fluorides*)
27. 9th Workshop of the multidisciplinary network SeS Redox and Catalysis, 08–10th of September 2022, Łódź, Poland (*New Applications of Sulfur Compounds in Organic Synthesis*), **invited lecture**

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